

Industrial Filters Selection 2

Selecting the Element

Element category		Element type			Applicable fluid check								Element material			
Filtration level	Disposable/Reusable	Element description	Element model	Element symbol	Fluid applicability								Filter media	Core		
					Pure water	Industrial water	Cleaning fluid Alkali-based	Acid	Solutions			Cutting oil Grinding oil				
								Petroleum	Flourine	Alcohol						
Nominal filtration	Disposable	Fiber element	EH	H	×	⊙	○	×	⊙	⊙	○	⊙	Cotton	Stainless steel 304		
			EHM	T	×	⊙	⊙	⊙	○	×	⊙	○	Polypropylene	Polypropylene		
			EHK	G	×	○	×	⊙	○	○	○	○	Glass fiber	Stainless steel 316		
	Reusable	P.P. depth element	EJ	W	○	⊙	⊙	⊙	○	×	⊙	○	Polypropylene Polyethylene	Polypropylene		
			Paper element	EP	P	×	×	×	×	○	×	○	⊙	Cotton	Polypropylene	
				EJ	E	×	⊙	○	○	○	○	⊙	⊙	Polyester	—	
			Sintered metal element	Micromesh element	EM	M	×	○	○	○	○	○	⊙	⊙	Stainless steel 304 (Epoxy parts)	Stainless steel 304
					EM	L	×	⊙	⊙	⊙	⊙	⊙	⊙	⊙	Stainless steel 316	Stainless steel 316
				ES	S	×	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	Bronze	—
			Filter plate laminated element	END	S	×	⊙	○	○	○	×	○	⊙	Stainless steel 304	—	

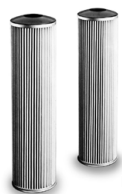
⊙: Optimal ○: Applicable △: Caution ×: Not applicable



EH/EHM/EHK



EJ



EP

Industrial Filters Selection 3

Selecting the Element

Element category		Element type			Applicable fluid check										Element material	
Filtration level	Disposable/Reusable	Element name	Element model	Element symbol	Fluid applicability							Filter media	Core			
					Pure water	Industrial water	Cleaning fluid		Solutions					Cutting oil	Grinding oil	
High filtration accuracy		Disposable														
High filtration accuracy	Disposable	HEPO II element	EJ	J	⊙	○	×	×	⊙	○	⊙	⊙	Polyester	Polypropylene		
		P.P. HEPO II element	EJ102S	R	○	○	○	○	○	△	○	○	Polypropylene	Polypropylene		
		Membrane element	ED	D	⊙	○	○	○	○	○	○	×	Polyether Sulphone (0.2 μm)	Polypropylene		
		Membrane P.P. element	ED102S	U	○	○	○	○	○	△	○	×	Polypropylene		Polypropylene	
		Membrane CA element	ED111S	D	○	○	×	×	⊙	×	⊙	×	Polyester	Polypropylene		

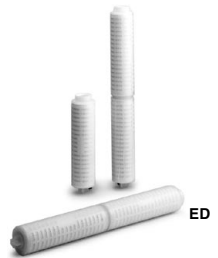
⊙: Optimal ○: Applicable △: Caution ×: Not applicable



EJ



EJ102S



ED

Operating temperature

Operating temperature	Filtration accuracy (Filtration efficiency 99% or more)	Recommended flow rate	Element seal (Symbol)				Applicable housing models								
			NBR (N)	FKM (V)	PTFE (T)	Non-asbestos (A)	FGA	FGC	FGD	FGE	FGG	FQ	FGH	FGF	FN
0 to 80°C	2 μm	20 L/min	●	●	●	—	△	△	⊙	⊙	×	⊙	×	×	×
	4 μm		—	—	●	—	×	×	×	×	×	⊙	×	×	
	6 μm		●	●	●	—	△	△	△	△	×	⊙	×	×	×
	13 μm		—	—	●	—	×	×	×	×	×	⊙	×	×	
0 to 80°C	2 μm	20 L/min	●	●	●	—	△	△	△	△	×	⊙	×	×	×
	4 μm		—	—	●	—	×	×	×	×	×	⊙	×	×	
	6 μm		●	●	●	—	△	△	△	△	×	⊙	×	×	×
	13 μm		—	—	●	—	×	×	×	×	×	⊙	×	×	
0 to 80°C	0.2 μm	5 L/min	●	●	●	—	△	△	△	△	×	△	×	×	×
	0.4 μm		—	—	●	—	×	×	×	×	×	⊙	×	×	
0 to 70°C	0.2 μm	5 L/min	●	●	●	—	△	△	△	△	×	△	×	×	×
	0.4 μm		●	●	●	—	△	△	△	△	×	△	×	×	×
0 to 80°C	0.2 μm	5 L/min	●	●	●	—	△	△	△	△	×	△	×	×	×
	0.4 μm		●	●	●	—	△	△	△	△	×	△	×	×	×

These values are for water
(The flow rates will differ if the fluids are of other, higher viscosity types.)

●: Compatible seal

⊙: Standard △: Made to Order specification ×: Cannot be incorporated

FGD

FGE

FGG

FGA

FGC

FGF

FGH

FQ1

FN

EB:

ES:



ED102S



ED111S

Industrial Filters Selection 4

Selecting the Element Seal

Seal material	Symbol	Applicable fluid check								Operating temperature
		Fluid applicability								Operating temperature
		Pure water	Industrial water	Cleaning fluid		Solutions			Cutting oil Grinding oil	
Alkali-based	Acid			Petroleum	Flourine	Alcohol				
NBR	N	○	◎	×	△	×	×	×	○	0 to 80°C
FKM	V	○	○	○	○	△	△	×	○	0 to 120°C
Fluororesin	T	○	○	○	○	◎	◎	◎	○	0 to 120°C
Non-asbestos	A	○	○	△	△	△	○	○	○	0 to 150°C

◎: Optimal ○: Applicable △: Caution ×: Not applicable

Applicable housing models

FGA	FGC	FGD	FGE	FGG	FQ	FGH	FGF	FN
—	—	⊙	⊙	⊙	⊙	—	⊙	⊙
—	—	—	⊙	⊙	⊙	—	⊙	⊙
—	—	⊙	⊙	—	—	⊙	—	—
⊙	⊙	—	—	—	—	—	—	—

⊙: Standard

Applicable element symbols

H	T	G	W	P	E	M	L	B	S	J	R	D	U	D
N/A	N/A	N/A	N/A	●	N/A	●	●	●	●	●	●	▲	●	●
N/A	N/A	N/A	N/A	●	N/A	●	●	●	●	●	●	▲	●	●
N/A	N/A	N/A	N/A	—	N/A	—	●	●	●	▲	—	●	—	●
N/A	N/A	N/A	N/A	—	N/A	—	●	—	●	—	—	—	—	—

●: Applicable ▲: Partially applicable

FGD

FGE

FGG

FGA

FGC

FGF

FGH

FQ1

FN

EB:

ES:

Industrial Filters Selection 5

Selecting the Housing

Filter type	Series	Model	Product specification		Material		
			Maximum operating pressure	Operating temperature	Housing	Seal	□1
Cartridge	FGH	FGH□2-□3-*1*2	1.0 MPa	0 to 80°C	Stainless steel 316	Fluoropolymer	—
	FQ	FQ101□2□1-□3-*1*2	1.0 MPa	0 to 80°C	Stainless steel 304	NBR	N
						FKM	V
	FGD	FGD□1□2-□3-*1*2	0.7 MPa	0 to 80°C	Aluminum SPCD	NBR	C
			1.0 MPa		SCS14 Stainless steel 316L	Fluoropolymer	T
FGE	FGE□1□2-□3-*1*2	0.7 MPa	0 to 80°C	Stainless steel 304	NBR	S	
					FKM	L	
					Fluoropolymer	T	
FGG	FGG□1□2-□3-*1*2	0.7 MPa	0 to 80°C	Stainless steel 304	NBR	S	
					FKM	L	

□1: Housing/seal material
 □2: Number of elements
 □3: Port size
 *1: Element symbol
 *2: Element seal



FGH



FQ



FGD

Industrial Filters Selection 6

Selecting the Housing

Filter type	Series	Model	Product specification		Material		
			Maximum operating pressure	Operating temperature	Housing	Seal	□1
Cartridge	FGA	FGA □1□2-□3-*1*2	1.0 MPa	0 to 80°C	Stainless steel 304 SS400	Non-asbestos	S C
	FGC	FGC □1□2-□3-*1*2	1.0 MPa 2.0 MPa 4.0 MPa	0 to 80°C	Stainless steel 304 SS400	Non-asbestos	S C
Bag	FGF	FGF □1□2-□3-*1*2	0.5 MPa	0 to 80°C	Stainless steel 304	NBR FKM	S L
			0.5 MPa	0 to 80°C	Stainless steel 304 SS400 Stainless steel 304 SS400	NBR FKM	S C L R
Back-flushing type	FN	FN □2□1-□3-*1*2	1.0 MPa	0 to 80°C	Stainless steel 304	NBR FKM	N V

□1: Housing/seal material
 □2: Number of elements
 □3: Port size
 *1: Element symbol
 *2: Element seal



Number of elements				Port size		Applicable element													
Element placement	Element level	Number of elements	<input type="checkbox"/> 2	<input type="checkbox"/> 3	÷1														
					H	T	G	P	M	L	W	B	S	J	R	D	U		
4 to 83 lines	× 1 to 4	= 4 to 332	Refer to p. 35	1B to 6B	Refer to p. 35	⊙	⊙	⊙	⊙	⊙	⊙	△ X29	⊙	⊙	△ X80	△ X151	△ X94	△ X30	
1 line	× 1	= 1	A	1/2 B	04	⊙	⊙	⊙	⊙	⊙	⊙	△ X29	⊙	⊙	△ X80	△ X151	△ X94	△ X30	
	× 2	= 2	B	3/4 B	06														
				1 B	10														
Bag element	ø190 x L440	1 L440	1A	Rc 2	20	Bag element													
	ø190 x L770	1 L770	1B																
Bag element	ø190 x L440	3 L440	3A	Rc 2	40	Bag element													
		3 L770	3B																
	5 L440	5A																	
	5 L770	5B																	
Back-flushing element	Element type · Cylindrical · Multilevel type	Cylindrical 1 L250	1101	Rc 1	10	Back-flushing element													
		Multilevel 1 L250	1111																
	Cylindrical 1 L500	1102																	
	Multilevel 1 L500	1112																	
	Element length · L250 · L500	Cylindrical 4 L500	4102															Rc 2	20

For L250

FGD

FGE

FGG

FGA

FGC

FGF

FGH

FQ1

FN

EB

ES



FGF



FN